## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/575,193
Source:	IFWP,
Date Processed by STIC:	4/24/06

## ENTERED



**IFWP** 

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,193

DATE: 04/24/2006

TIME: 16:14:00

Input Set : A:\14875-160US1.txt

Output Set: N:\CRF4\04242006\J575193.raw

```
3 <110> APPLICANT: Hattori, Kunihiro
              Kojima, Tetsuo
              Miyazaki, Taro
              Soeda, Tetsuhiro
      8 <120> TITLE OF INVENTION: BISPECIFIC ANTIBODY SUBSTITUTING FOR FUNCTIONAL PROTEINS
     10 <130> FILE REFERENCE: 14875-160US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/575,193
C--> 12 <141> CURRENT FILING DATE: 2006-04-07
     12 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/014911
     13 <151> PRIOR FILING DATE: 2004-10-08
     15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/13062
     16 <151> PRIOR FILING DATE: 2003-10-10
     18 <150> PRIOR APPLICATION NUMBER: PCT/JP03/13123
     19 <151> PRIOR FILING DATE: 2003-10-14
     21 <160> NUMBER OF SEQ ID NOS: 268
     23 <170> SOFTWARE: PatentIn version 3.1
     25 <210> SEQ ID NO: 1
     26 <211> LENGTH: 22
     27 <212> TYPE: DNA
     28 <213> ORGANISM: Artificial
     30 <220> FEATURE:
     31 <223> OTHER INFORMATION: an artificially synthesized primer sequence
     33 <400> SEQUENCE: 1
     34 cagctatgaa atacctattg cc
                                                                                22
     37 <210> SEQ ID NO: 2
     38 <211> LENGTH: 23
     39 <212> TYPE: DNA
     40 <213> ORGANISM: Artificial
     42 <220> FEATURE:
     43 <223> OTHER INFORMATION: an artificially synthesized primer sequence
     45 <400> SEQUENCE: 2
     46 cttttcataa tcaaaatcac cgg
                                                                                23
     49 <210> SEQ ID NO: 3
     50 <211> LENGTH: 19
     51 <212> TYPE: DNA
     52 <213> ORGANISM: Artificial
     54 <220> FEATURE:
     55 <223> OTHER INFORMATION: an artificially synthesized primer sequence
     57 <400> SEQUENCE: 3
     58 attgcctacg gcagccgct
                                                                               19
    61 <210> SEQ ID NO: 4
    62 <211> LENGTH: 20
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63 <212> TYPE: DNA

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/575,193**DATE: 04/24/2006

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64 <213> ORGANISM: Artificial
66 <220> FEATURE:
67 <223> OTHER INFORMATION: an artificially synthesized primer sequence
69 <400> SEQUENCE: 4
70 aaatcaccgg aaccagagcc
                                                                          20
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 24
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial
78 <220> FEATURE:
79 <223> OTHER INFORMATION: an artificially synthesized primer sequence
81 <400> SEQUENCE: 5
82 ttactcgcgg cccagccggc catg
                                                                          24
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 28
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial
90 <220> FEATURE:
91 <223> OTHER INFORMATION: an artificially synthesized primer sequence
93 <400> SEQUENCE: 6
94 ggaattcggc ccccgaggcc cactcacg
                                                                          28
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 1215
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 7
103 ggcctcgggg gccagctttc tggggcaggc caggcctgac cttggctttg gggcagggag
                                                                           60
105 ggggctaagg tgaggcaggt ggcgccagcc aggtgcacac ccaatgccca tgagcccaga
                                                                          120
107 cactggacgc tgaacctcgc ggacagttaa gaacccaggg gcctctgcgc cctgggccca
                                                                          180
109 gctctgtccc acaccgcggt cacatggcac cacctctctt gcagcttcca ccaagggccc
                                                                          240
                                                                          300
111 atccgtcttc cccctggcgc cctgctccag gagcacctcc gagagcacag ccgccctggg
113 ctgcctggtc aaggactact tccccgaacc ggtgacggtg tcgtggaact caggcgccct
                                                                          360
115 gaccagegge gtgcacacet teeeggetgt ectacagtee teaggaetet aeteeeteag
                                                                          420
117 cagcgtggtg accgtgccct ccagcagctt gggcacgaag acctacacct gcaacgtaga
                                                                          480
119 tcacaagccc agcaacacca aggtggacaa gagagttgag tccaaatatg gtcccccatg
                                                                          540
121 cccaccatgc ccagcacctg agttcctggg gggaccatca gtcttcctgt tcccccaaa
                                                                          600
123 acccaaggac actctcatga tctcccggac ccctgaggtc acgtgcgtgg tggtggacgt
                                                                          660
125 gagccaggaa gaccccgagg tccagttcaa ctggtacgtg gatggcgtgg aggtgcataa
                                                                          720
127 tgccaagaca aagccgcggg aggagcagtt caacagcacg taccgtgtgg tcagcgtcct
                                                                          780
129 caccgtcctg caccaggact ggctgaacgg caaggagtac aagtgcaagg tctccaacaa
                                                                          840
131 aggcctcccg tcctccatcg agaaaaccat ctccaaagcc aaagggcagc cccgagagcc
                                                                          900
133 acaggtgtgc accetgeece cateceagga ggagatgace aagaaceagg teageetgtg
                                                                          960
135 gtgcctggtc aaaggcttct accccagcga catcgccgtg gagtgggaga gcaatgggca
                                                                         1020
137 gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttcct
                                                                         1080
139 ctacagcagg ctaaccgtgg acaagagcag gtggcaggag gggaatgtct tctcatgctc
                                                                         1140
141 cgtgatgcat gaggctctgc acaaccacta cacacagaag agcctctccc tgtctctggg
                                                                         1200
143 taaatgagcg gccgc
                                                                         1215
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 684
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Input Set : A:\14875-160US1.txt

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148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 8
152 ggcctcgggg gccgaattcc taaactctga gggggtcgga tgacgtggcc attctttgcc
                                                                           60
154 taaagcattg agtttactgc aaggtcagaa aagcatgcaa agccctcaga atggctgcaa
                                                                          120
156 agageteeaa caaaacaatt tagaaettta ttaaggaata gggggaaget aggaagaae
                                                                          180
158 tcaaaacatc aagattttaa atacgcttct tggtctcctt gctataatta tctgggataa
                                                                          240
160 gcatgctgtt ttctgtctgt ccctaacatg ccctgtgatt atccgcaaac aacacacca
                                                                          300
162 agggcagaac tttgttactt aaacaccatc ctgtttgctt ctttcctcag gaactgtggc
                                                                          360
164 tgcaccatct gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc
                                                                          420
166 tgttgtgtgc ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga
                                                                          480
168 taacgccctc caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag
                                                                          540
170 cacctacage etcageagea ecetgaeget gageaaagea gaetaegaga aacaeaaagt
                                                                          600
172 ctacgcctgc gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag
                                                                          660
174 gggagagtgt tagagggcgg ccgc
                                                                          684
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 1215
179 <212> TYPE: DNA
180 <213> ORGANISM: Homo sapiens
182 <400> SEQUENCE: 9
183 ggcctcgggg gcctcccagg ctctgggcag gcacaggcta ggtgccccta acccaggccc
                                                                           60
185 tgcacacaaa ggggcaggtg ctgggctcag acctgccaag agccatatcc gggaggaccc
                                                                          120
187 tgcccctgac ctaagcccac cccaaaggcc aaactctcca ctccctcagc tcggacacct
                                                                          180
189 tctctcctcc cagattccag taactcccaa tcttctctct gcagcttcca ccaagggccc
                                                                          240
191 atccgtcttc cccctggcgc cctgctccag gagcacctcc gagagcacag ccgccctggg
                                                                          300
193 ctgcctggtc aaggactact tccccgaacc ggtgacggtg tcgtggaact caggcgccct
                                                                          360
195 gaccagegge gtgcacacet teeeggetgt ectacagtee teaggaetet aeteeeteag
                                                                          420
197 cagcgtggtg accgtgccct ccagcagctt gggcacgaag acctacacct gcaacgtaga
                                                                          480
199 tcacaagccc agcaacacca aggtggacaa gagagttgag tccaaatatg gtcccccatg
                                                                          540
201 cccaccatge ccagcacetg agtteetggg gggaccatea gtetteetgt tecceccaaa
                                                                          600
203 acccaaggac actctcatga tctcccggac ccctgaggtc acgtgcgtgg tggtggacgt
                                                                          660
205 gagccaggaa gaccccgagg tccagttcaa ctggtacgtg gatggcgtgg aggtgcataa
                                                                          720
207 tgccaagaca aagccgcggg aggagcagtt caacagcacg taccgtgtgg tcagcgtcct
                                                                          780
209 caccgtcctg caccaggact ggctgaacgg caaggagtac aagtgcaagg tctccaacaa
                                                                          840
211 aggecteceg tectecateg agaaaaceat etecaaagee aaagggeage eeegagagee
                                                                          900
213 acaggtgtac accetgeece cateceagtg egagatgace aagaaceagg teageetgte
                                                                          960
215 ctgcgcggtc aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca
                                                                         1020
217 gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttcct
                                                                         1080
219 cgtgagcagg ctaaccgtgg acaagagcag gtggcaggag gggaatgtct tctcatgctc
                                                                         1140
221 cgtgatgcat gaggctctgc acaaccacta cacacagaag agcctctccc tgtctctggg
                                                                         1200
223 taaatgagcg gccgc
                                                                         1215
226 <210> SEQ ID NO: 10
227 <211> LENGTH: 21
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial
231 <220> FEATURE:
232 <223> OTHER INFORMATION: an artificially synthesized primer sequence
234 <400> SEQUENCE: 10
235 cgcaaatggg cggtaggcgt g
                                                                           21
```

18

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**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/575,193**DATE: 04/24/2006

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Input Set : A:\14875-160US1.txt

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238 <210> SEO ID NO: 11
239 <211> LENGTH: 18
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial
243 <220> FEATURE:
244 <223> OTHER INFORMATION: an artificially synthesized primer sequence
246 <400> SEQUENCE: 11
247 tagaaggcac agtcgagg
250 <210> SEQ ID NO: 12
251 <211> LENGTH: 24
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial
255 <220> FEATURE:
256 <223> OTHER INFORMATION: an artificially synthesized primer sequence
258 <400> SEQUENCE: 12
259 ctctgaatac tttcaacaag ttac
262 <210> SEQ ID NO: 13
263 <211> LENGTH: 116
264 <212> TYPE: PRT
265 <213> ORGANISM: Mus musculus
267 <400> SEQUENCE: 13
269 Met Glu Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Thr
270 1
                     5
                                         10
                                                              15
273 Gln Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser
274
                20
                                     25
                                                          30
277 Gly Tyr Tyr Trp Thr Trp Ile Arg Gln Phe Pro Gly Asn Asn Leu Glu
278
            35
                                 40
                                                      45
281 Trp Ile Gly Tyr Ile Ser Phe Asp Gly Thr Asn Asp Tyr Asn Pro Ser
282
        50
                             55
                                                  60
285 Leu Lys Asn Arg Ile Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe
286 65
                         70
                                              75
                                                                  80
289 Phe Leu Lys Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr
290
                     85
                                         90
                                                              95
293 Cys Ala Arg Gly Pro Pro Cys Thr Tyr Trp Gly Gln Gly Thr Leu Val
294
                100
                                     105
                                                          110
297 Thr Val Ser Ala
298
            115
301 <210> SEQ ID NO: 14
302 <211> LENGTH: 6
303 <212> TYPE: PRT
304 <213> ORGANISM: Mus musculus
306 <400> SEQUENCE: 14
308 Ser Gly Tyr Tyr Trp Thr
309 1
312 <210> SEQ ID NO: 15
313 <211> LENGTH: 16
314 <212> TYPE: PRT
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317 <400> SEQUENCE: 15

315 <213> ORGANISM: Mus musculus

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,193

DATE: 04/24/2006

TIME: 16:14:00

Input Set : A:\14875-160US1.txt

Output Set: N:\CRF4\04242006\J575193.raw

```
319 Tyr Ile Ser Phe Asp Gly Thr Asn Asp Tyr Asn Pro Ser Leu Lys Asn
320 1
                                         10
323 <210> SEQ ID NO: 16
324 <211> LENGTH: 6
325 <212> TYPE: PRT
326 <213> ORGANISM: Mus musculus
328 <400> SEQUENCE: 16
330 Gly Pro Pro Cys Thr Tyr
331 1
                     5
334 <210> SEQ ID NO: 17
335 <211> LENGTH: 120
336 <212> TYPE: PRT
337 <213> ORGANISM: Mus musculus
339 <400> SEQUENCE: 17
341 Met Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly
342 1
345 Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp
                20
349 Asp Tyr Val His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
350
            35
353 Ile Gly Arg Ile Asp Pro Ala Asp Gly Lys Thr Lys Tyr Ala Pro Lys
        50
354
                             55
                                                  60
357 Phe Gln Asp Lys Ala Thr Met Thr Ser Asp Thr Ser Ser Asn Thr Ala
358 65
                         70
                                              75
                                                                  80
361 Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
362
                    85
                                         90
                                                              95
365 Cys Val Arg Trp Arg Ile Tyr Tyr Gly Leu Met Asp Tyr Trp Gly Gln
366
                100
                                     105
                                                          110
369 Gly Thr Ser Val Thr Val Ser Ser
370
            115
                                 120
373 <210> SEQ ID NO: 18
374 <211> LENGTH: 5
375 <212> TYPE: PRT
376 <213> ORGANISM: Mus musculus
378 <400> SEQUENCE: 18
380 Asp Asp Tyr Val His
381 1
384 <210> SEQ ID NO: 19
385 <211> LENGTH: 17
386 <212> TYPE: PRT
387 <213> ORGANISM: Mus musculus
389 <400> SEQUENCE: 19
391 Arg Ile Asp Pro Ala Asp Gly Lys Thr Lys Tyr Ala Pro Lys Phe Gln
392 1
                                         10
395 Asp
399 <210> SEQ ID NO: 20
400 <211> LENGTH: 10
401 <212> TYPE: PRT
402 <213> ORGANISM: Mus musculus
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/24/2006
PATENT APPLICATION: US/10/575,193 TIME: 16:14:01

Input Set : A:\14875-160US1.txt

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## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,10,11,12

**VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/575,193**DATE: 04/24/2006

TIME: 16:14:01

Input Set : A:\14875-160US1.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:4184 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:221, Line#:4182 L:4211 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:223, Line#:4209 L:4238 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:225, Line#:4236 L:4265 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:227, Line#:4263 L:4292 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:229, Line#:4290 L:4319 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:231, Line#:4317 L:4346 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:233, Line#:4344 L:4373 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:235, Line#:4371 L:4400 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:237, Line#:4398 L:4427 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:239, Line#:4425 L:4462 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:241, Line#:4460 L:4489 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:243,Line#:4487 L:4516 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:245, Line#:4514 L:4543 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:247, Line#:4541 L:4578 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:249, Line#:4576 L:4605 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:251, Line#:4603 L:4632 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:253, Line#:4630 L:4659 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:255, Line#:4657 L:4686 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:257, Line#:4684 L:4713 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:259, Line#:4711 L:4748 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:261, Line#:4746 L:4775 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:263, Line#:4773 L:4802 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:265, Line#:4800 L:4829 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:267, Line#:4827